

ABSTRACT OF THE DISCLOSURE

A planographic printing plate precursor of the present invention includes a hydrophilic support, and a lower layer and an image recording layer disposed on the hydrophilic support in this order. The lower layer includes a water-insoluble and alkali-soluble resin, and wherein the image recording layer includes a novolak type phenolic resin containing phenol as a structural unit thereof and a light-to-heat conversion agent, and exhibits increased solubility in an alkaline aqueous solution when exposed to an infrared laser.